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RAW SEQUENCE LISTING

DATE: 12/05/2001

PATENT APPLICATION: US/09/851,138A

TIME: 11:39:07

Input Set : N:\Crf3\RULE60\09851138A.txt

Output Set: N:\CRF3\12052001\I851138A.raw

SEQUENCE LISTING

4 (1) GENERAL INFORMATION:

6 (i) APPLICANT: MAERTENS, GEERT
7 STUYVER, LIEVEN9 (ii) TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
10 AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
11 AGENTS

13 (iii) NUMBER OF SEQUENCES: 207

15 (iv) CORRESPONDENCE ADDRESS:

16 (A) ADDRESSEE: ARNOLD, WHITE & DURKEE

17 (B) STREET: P.O. BOX 4433

18 (C) CITY: HOUSTON

19 (D) STATE: TEXAS

20 (E) COUNTRY: USA

21 (F) ZIP: 77210-4433

23 (v) COMPUTER READABLE FORM:

24 (A) MEDIUM TYPE: Floppy disk

25 (B) COMPUTER: IBM PC compatible

26 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

27 (D) SOFTWARE: Microsoft Word 6.0 / ASCII text output

29 (vi) CURRENT APPLICATION DATA:

C--> 30 (A) APPLICATION NUMBER: US/09/851,138A

C--> 31 (B) FILING DATE: 09-May-2001

C--> 41 (vii) PRIOR APPLICATION DATA:

34 (A) APPLICATION NUMBER: 08/836,075

35 (B) FILING DATE: 1998-01-02

38 (A) APPLICATION NUMBER: EP 94870166.9

39 (B) FILING DATE: 21 Oct 1994

42 (A) APPLICATION NUMBER: EP 95870076.7

43 (B) FILING DATE: 28 Jun 1995

C--> 45 (viii) ATTORNEY/AGENT INFORMATION:

46 (A) NAME: KAMMERER, PATRICIA A.

47 (B) REGISTRATION NUMBER: 29,775

48 (C) REFERENCE/DOCKET NUMBER: INNS:004

50 (2) INFORMATION FOR SEQ ID NO: 1:

52 (i) SEQUENCE CHARACTERISTICS:

53 (A) LENGTH: 327 base pairs

54 (B) TYPE: nucleic acid

55 (C) STRANDEDNESS: single

56 (D) TOPOLOGY: linear

58 (ii) MOLECULE TYPE: cDNA

60 (iii) HYPOTHETICAL: NO

C--> 62 (iv) ANTI-SENSE: NO

67 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

69 ATGAGCACGA ATCCTAAACC TCAAAGAAAA ACCAACGTA ACACCAACCG CCGCCCTCAK 60

71 GGSGTNNNNN NNCCGGGTGG CGGTCAGATC GTTGGTGGAG TTTACCTGTT GCCGCGCAGG 120

73 GGCCCCAGGN NGGGTGTGCG CGCGACTAGG AAGACTTCCG AGCGGTACCA ACCTCGTGGC 180

ENTERED

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75 AGGCGACAGC CTATCCCCAA GGCTCGYCGG YCCGAGGGCA GGTCCCTGGGC TCAGCCCCGG 240
77 TATCCTTGGC CCCTCTATGG CAATGAGGGC TGCGGGTGGG CGGGNTGGCT CCTGTCCCCC 300
79 CGCGGCTCTC GGCCCAATTG GGGCCCC 327

81 (2) INFORMATION FOR SEQ ID NO: 2:

83 (i) SEQUENCE CHARACTERISTICS:
84 (A) LENGTH: 109 amino acids
85 (B) TYPE: amino acid
86 (D) TOPOLOGY: linear

88 (ii) MOLECULE TYPE: peptide

92 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

94 Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
95 1 5 10 15

W--> 97 Arg Arg Pro Xaa Xaa Xaa Xaa Pro Gly Gly Gly Gln Ile Val Gly
98 20 25 30

W--> 100 Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Xaa Gly Val Arg Ala
101 35 40 45

103 Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
104 50 55 60

W--> 106 Ile Pro Lys Ala Xaa Arg Xaa Glu Gly Arg Ser Trp Ala Gln Pro Gly
107 65 70 75 80

W--> 109 Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Xaa Trp
110 85 90 95

112 Leu Leu Ser Pro Arg Gly Ser Arg Pro Asn Trp Gly Pro
113 100 105

115 (2) INFORMATION FOR SEQ ID NO: 3:

117 (i) SEQUENCE CHARACTERISTICS:
118 (A) LENGTH: 447 base pairs
119 (B) TYPE: nucleic acid
120 (C) STRANDEDNESS: single
121 (D) TOPOLOGY: linear
123 (ii) MOLECULE TYPE: cDNA
125 (iii) HYPOTHETICAL: NO

C--> 127 (iv) ANTI-SENSE: NO

131 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

133 GACGGCGTGA ACTATGCAAC AGGGAACATTG CCCGGTTGCT CTTTCTCTAT CTTCCCTTTG 60

135 GCTTTGCTGT CCTGCTTGAC GGTTCCAACK ACCGCTCACG AGGTGCGCAA CGCATCCGGG 120

137 GTGTATCATG TCACCAACGA CTGTTCCAAC TCGAGCATCA TCTATGAGAT GGACGGTATG 180

139 ATCATGCACT ACCCAGGGTG CGTGCCCTGC GTTCGGGAGG ATAACCATCT CCGCTGCTGG 240

141 ATGGCGCTCA CCCCCACGCT TGCGGTCAAA AAYGCTAGTG TCCCCACTRC GGCAATCCGA 300

143 CGTCACGTCG ACTTGCTTGT TGGGGNNNCC ACGTTCTGTT CCGCTATGTA CGTGGGRGAC 360

145 CTTTGCAGGT CTGTCTTCCT CGCTGGCCAG CTATTCACCT TTTCACCCCG CATGCACCAT 420

147 ACAACGCAGG AGTGCAACTG CTCAATC 447

149 (2) INFORMATION FOR SEQ ID NO: 4:

151 (i) SEQUENCE CHARACTERISTICS:
152 (A) LENGTH: 149 amino acids
153 (B) TYPE: amino acid
154 (D) TOPOLOGY: linear
156 (ii) MOLECULE TYPE: peptide

160 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

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162 Asp Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser
163 1 5 10 15
W--> 165 Ile Phe Leu Leu Ala Leu Ser Cys Leu Thr Val Pro Xaa Thr Ala
166 20 25 30
168 His Glu Val Arg Asn Ala Ser Gly Val Tyr His Val Thr Asn Asp Cys
169 35 40 45
171 Ser Asn Ser Ser Ile Ile Tyr Glu Met Asp Gly Met Ile Met His Tyr
172 50 55 60
174 Pro Gly Cys Val Pro Cys Val Arg Glu Asp Asn His Leu Arg Cys Trp
175 65 70 75 80
W--> 177 Met Ala Leu Thr Pro Thr Leu Ala Val Lys Xaa Ala Ser Val Pro Thr
178 85 90 95
W--> 180 Xaa Ala Ile Arg Arg His Val Asp Leu Leu Val Gly Xaa Xaa Thr Phe
181 100 105 110
W--> 183 Cys Ser Ala Met Tyr Val Xaa Asp Leu Cys Gly Ser Val Phe Leu Ala
184 115 120 125
186 Gly Gln Leu Phe Thr Phe Ser Pro Arg Met His His Thr Thr Gln Glu
187 130 135 140
189 Cys Asn Cys Ser Ile
190 145
192 (2) INFORMATION FOR SEQ ID NO: 5:
194 (i) SEQUENCE CHARACTERISTICS:
195 (A) LENGTH: 327 base pairs
196 (B) TYPE: nucleic acid
197 (C) STRANDEDNESS: single
198 (D) TOPOLOGY: linear
200 (ii) MOLECULE TYPE: cDNA
202 (iii) HYPOTHETICAL: NO
C--> 204 (iv) ANTI-SENSE: NO
208 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
210 ATGAGCACGAG ATCCTAAACC TCAAAGAAAA ACCAAACGTA ACACCAACCG CCGCCCACAG 60
212 GACGTCAAGN TCCCAGGGTGG TGGTCAGATC GTTGGTGGAG TTTACCTGTT GCCGCGCAGG 120
214 GGCCCCCAGGT TGGGTGTGCG CGCGACCAGG AAGACTTCCG AGCGGTGCGA GCCTCGTGAC 180
216 AGGCGACAGC CTATTCTAA GGCTCGCCAG TCCGATGGCA GNNCCTGGGC TCAGGCCAGGG 240
218 CATCCCTGGC CCCTCTATGG CAATGAGGGC TGGGGATGGG CGGGATGGCT CCTGTCCCCC 300
220 CGCGGCTCTC GGCCCCAGTTG GGGCCCC 327
222 (2) INFORMATION FOR SEQ ID NO: 6:
224 (i) SEQUENCE CHARACTERISTICS:
225 (A) LENGTH: 109 amino acids
226 (B) TYPE: amino acid
227 (D) TOPOLOGY: linear
229 (ii) MOLECULE TYPE: peptide
233 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
235 Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
236 1 5 10 15
W--> 238 Arg Arg Pro Gln Asp Val Lys Xaa Pro Gly Gly Gln Ile Val Gly
239 20 25 30
241 Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
242 35 40 45

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244 Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Asp Arg Arg Gln Pro
245 50 55 60
W--> 247 Ile Pro Lys Ala Arg Gln Ser Asp Gly Xaa Xaa Trp Ala Gln Pro Gly
248 65 70 75 80
250 His Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
251 85 90 95
253 Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro
254 100 105
256 (2) INFORMATION FOR SEQ ID NO: 7:
258 (i) SEQUENCE CHARACTERISTICS:
259 (A) LENGTH: 447 base pairs
260 (B) TYPE: nucleic acid
261 (C) STRANDEDNESS: single
262 (D) TOPOLOGY: linear
264 (ii) MOLECULE TYPE: cDNA
266 (iii) HYPOTHETICAL: NO
C--> 268 (iv) ANTI-SENSE: NO
272 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
274 GACGGCGTGA ACTATGCAAC AGGGAATTG CCTGGTTGCT CTTTCTCTAT CTTCCCTTTA 60
276 GCTTTCTGT CCTGCTTGAC GGTTCCAAC ACCGCTCATG AGGTGCGCAA CGCATCCGGG 120
278 GTATATCATC TCACCAATGA CTGTTCCAAC TCGAGCATCA TCTATGAGAT GAGTGGTATG 180
280 ATCTTGCACG CCCCCAGGGTG TGTGCCCTGC GTTCGGGAGA ACAACTCTTC TCGTTGCTGG 240
282 ATGCCRCTCA CCCCCACGCT TGCGGTAAA GACGCTAATG TCCCTACTGC GGCAATCCGA 300
284 CGCCATGTCG ACTTGCTGGT TGGGACAGCC GCGTTTCGTT CCGCTATGTA CGTGGGGGAC 360
286 CTCTGCGGAT CCGTCTTCCT TGTCGGCCAG CTATTCACCT TTTCACCCCG CTTGTACCAT 420
288 ACAACACAGG AGTGCAACTG CTCAATC 447
290 (2) INFORMATION FOR SEQ ID NO: 8:
292 (i) SEQUENCE CHARACTERISTICS:
293 (A) LENGTH: 149 amino acids
294 (B) TYPE: amino acid
295 (D) TOPOLOGY: linear
297 (ii) MOLECULE TYPE: peptide
301 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
303 Asp Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser
304 1 5 10 15
306 Ile Phe Leu Leu Ala Phe Leu Ser Cys Leu Thr Val Pro Thr Thr Ala
307 20 25 30
309 His Glu Val Arg Asn Ala Ser Gly Val Tyr His Leu Thr Asn Asp Cys
310 35 40 45
312 Ser Asn Ser Ser Ile Ile Tyr Glu Met Ser Gly Met Ile Leu His Ala
313 50 55 60
315 Pro Gly Cys Val Pro Cys Val Arg Glu Asn Asn Ser Ser Arg Cys Trp
316 65 70 75 80
W--> 318 Met Xaa Leu Thr Pro Thr Leu Ala Val Lys Asp Ala Asn Val Pro Thr
319 85 90 95
321 Ala Ala Ile Arg Arg His Val Asp Leu Leu Val Gly Thr Ala Ala Phe
322 100 105 110
324 Arg Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
325 115 120 125

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327 Gly Gln Leu Phe Thr Phe Ser Pro Arg Leu Tyr His Thr Thr Gln Glu
 328 130 135 140

330 Cys Asn Cys Ser Ile
 331 145

333 (2) INFORMATION FOR SEQ ID NO: 9:

335 (i) SEQUENCE CHARACTERISTICS:

336 (A) LENGTH: 223 base pairs
 337 (B) TYPE: nucleic acid
 338 (C) STRANDEDNESS: single
 339 (D) TOPOLOGY: linear

341 (ii) MOLECULE TYPE: cDNA

343 (iii) HYPOTHETICAL: NO

C--> 345 (iv) ANTI-SENSE: NO

349 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

351 ATGAGCACGA ATCCTAAACC TCAAAGAAAA ACCAAAAGAA ACACCAACCG CCGCCCACAG	60
353 GACGTCAAGT TCCCGGGCGG TGGCCAGATC GTTGGTGGAG TCTACGTGCT ACCGCGCAGG	120
355 GGCCCTAGAT TGGGTGTGCG CGCAGCGCGG AAGACTTCGG AGCGGTGCGA ACCTCGTGGG	180
357 AGGCGCAAC CTATCCCCAA GGAGCGCCGA CCCGAGGGCA GGT	223

359 (2) INFORMATION FOR SEQ ID NO: 10:

361 (i) SEQUENCE CHARACTERISTICS:

362 (A) LENGTH: 74 amino acids
 363 (B) TYPE: amino acid
 364 (D) TOPOLOGY: linear

366 (ii) MOLECULE TYPE: peptide

370 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

372 Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn	
373 1 5 10 15	
375 Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly	
376 20 25 30	
378 Gly Val Tyr Val Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala	
379 35 40 45	
381 Ala Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro	
382 50 55 60	
384 Ile Pro Lys Glu Arg Arg Pro Glu Gly Arg	
385 65 70	

387 (2) INFORMATION FOR SEQ ID NO: 11:

389 (i) SEQUENCE CHARACTERISTICS:

390 (A) LENGTH: 957 base pairs
 391 (B) TYPE: nucleic acid
 392 (C) STRANDEDNESS: single
 393 (D) TOPOLOGY: linear

395 (ii) MOLECULE TYPE: cDNA

397 (iii) HYPOTHETICAL: NO

C--> 399 (iv) ANTI-SENSE: NO

403 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

405 ATGAGCACGA ATCCTAAACC TCAAAGAAAA ACCAAACGCA ACACCAACCG CCGCCCACAG	60
407 GACGTAAAT TCCCGGGTGG GGGCAGATC GTGGGTGGAG TTTACTTGTGTT GCCGCGCAGG	120
409 GGCCCCAGGT TGGGTGTGCG CGCGACGAGG AAGACTTCGG AGCGGTGCGA ACCTCGCGGA	180
411 AGGCGACAGC CTATCCCCAA GGCTCGCCGA CCCGAGGGCA GGTCTGGGC TCAGCCTGGG	240

VERIFICATION SUMMARY

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Input Set : N:\Crf3\RULE60\09851138A.txt
Output Set: N:\CRF3\12052001\I851138A.raw

L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:41 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:]
L:45 M:220 C: Keyword misspelled or invalid format, [(viii) ATTORNEY/AGENT INFORMATION:]
L:62 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:97 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:127 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:204 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:247 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:268 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:318 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:345 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:399 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:477 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:480 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:483 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:492 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:507 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:522 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:565 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:586 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:625 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:628 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:631 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:634 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:637 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:640 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:676 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:751 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:784 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:799 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:876 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:929 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:1006 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:1052 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:1073 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:1119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:1140 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:1196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30
L:1217 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]

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L:1294 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:1371 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:1406 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36
L:1409 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36
L:1427 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36
L:1430 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36
L:1448 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:1483 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:1525 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:1602 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:1674 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:1677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:1710 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:1725 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:1800 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:1803 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:1806 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:1809 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:1818 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:1848 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:1899 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:1902 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:1905 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:1920 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:1989 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48
L:1992 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48
L:1998 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48
L:2004 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48
L:2043 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:2077 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50
L:2110 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:2160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:2187 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:2254 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:2321 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:2388 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:2468 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:2535 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:2602 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:2691 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:2758 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:2825 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:2892 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:2959 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:3090 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:3157 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:3224 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:3291 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:3358 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]

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L:3425 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:3492 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]
L:3559 M:220 C: Keyword misspelled or invalid format, [(iv) ANTI-SENSE:]